Table A-3. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by industry and size of company: 1999-2001

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		1999 ¹	2000	2001 ²
Industry and size of company	NAICS codes	Millions of dollars		
Distribution by industry:				
All industries	21-23, 31-33, 42, 44-81	182,711	199,539	198,505
Manufacturing	31-33	116,921	124,078	120,705
Food Beverage and tobacco products Textiles, apparel, and leather Wood products Paper, printing and support activities Petroleum and coal products Chemicals	311	1,132	(D)	1,819
	312	(D)	417	152
	313-16	334	(D)	(D)
	321	70	105	182
	322, 323	(D)	(D)	(D)
	324	615	(D)	(D)
	325	20,246	20,918	(D)
Basic chemicals Resin, synthetic rubber, fibers, and filament Pharmaceuticals and medicines Other chemicals	3251	2,746	2,080	1,876
	3252	(D)	2,852	(D)
	3254	(D)	(D)	10,137
	325 minus (3251-52, 3254)	(D)	(D)	(D)
Plastics and rubber products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products	326	1,785	(D)	(D)
	327	(D)	846	990
	331	470	624	485
	332	1,655	1,672	1,599
	333	6,057	6,580	6,404
	334	35,932	45,097	47,079
Computers and peripheral equipment Communications equipment Semiconductor and other electronic components Navigational, measuring, electromedical, and control instruments Other computer and electronic products	3341	(D)	5,162	(D)
	3342	6,003	11,616	15,507
	3344	10,701	12,894	14,358
	3345	14,337	15,116	12,947
	334 minus (3341-42, 3344-45)	(D)	310	(D)
Electrical equipment, appliances, and components Transportation equipment	335 336	(D) (D) 33,965	(D) 30,085	4,980 25,965
Motor vehicles, trailers, and parts Aerospace products and parts Other transportation equipment	3361-63	(D)	(D)	(D)
	3364	14,425	10,319	7,868
	336 minus (3361-64)	(D)	(D)	(D)
Furniture and related products Miscellaneous manufacturing	337	248	284	301
	339	3,851	4,206	6,606
Medical equipment and supplies Other miscellaneous manufacturing	3391	(D)	(D)	(D)
	339 minus (3391)	(D)	(D)	(D)
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)			

See explanatory information and SOURCE at end of table.

Table A-3. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by industry and size of company: 1999-2001

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		1999 ¹	2000	2001 ²	
Industry and size of company	NAICS codes	Millions of dollars		<u> </u>	
Distribution by industry:					
Nonmanufacturing	21-23, 42, 44-81	65,790	75,461	77,799	
Mining, extraction, and support activities Utilities Construction Trade Transportation and warehousing Information	21 22 23 42, 44, 45 48, 49 51	(D) 142 691 19,616 460 15,389	823 (D) (D) 24,959 (D) 16,830	(D) 133 320 24,372 1,848 (D)	
Publishing	511	11,302	13,004	13,760	
Newspaper, periodical, book, and database Software	5111 5112	371 10,931	365 12,639	649 13,111	
Broadcasting and telecommunications	513	(D)	1,407 (S)	(D)	
Radio and television broadcasting Telecommunications Other broadcasting and telecommunications	5131 5133 513 minus (5131, 5133)	(D) (D) 31	(D) (D) 59	(D) (D) (D)	
Other information	51 minus (511, 513)	(D)	2,420	(D)	
Finance, insurance, and real estate Professional, scientific, and technical services	52, 53 54	(D) 18,994	4,025 22,577	(D) 27,704	
Architectural, engineering, and related services Computer systems design and related services Scientific R&D services Other professional, scientific, and technical services	5413 5415 5417 54 minus (5413, 5415, 5417)	3,580 (D) 10,470 (D)	3,381 5,169 12,892 1,135	3,386 9,154 14,244 920	
Management of companies and enterprises Health care services Other nonmanufacturing	55 621-23 56, 61, 624, 71, 72, 81	(D) 642 (D)	49 536 731	381 1,149 1,259	

See explanatory information and SOURCE at end of table.

Table A-3. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by industry and size of company: 1999-2001

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	1999 ¹	2000	2001 ²	
Industry and size of company		Millions of dollars		
Distribution by size of company [Number of employees]				
Total	182,711	199,539	198,505	
5 to 24	7,004	6,862	4,828	
25 to 49	4,750	5,008	3,750	
50 to 99	7,225	7,259	8,202	
100 to 249	7,213	9,020	12,916	
250 to 499	7,892	7,479	8,702	
500 to 999	7,032	9,074	10,564	
1,000 to 4,999	24,840	30,636	26,748	
5,000 to 9,999	16,376	16,768	17,487	
10,000 to 24,999	24,922	28,653	27,065	
25,000 or more	75,457	78,779	78,244	

¹ Some statistics for 1999 have been revised since originally published.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.

(S) = Indicates imputation of more than 50 percent.

(--) = Indicates data not collected.

NOTES: The R&D in this table is the industrial R&D performed within company facilities funded from all sources. The funds are the company's own; funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and State governments; and funds from the Federal Government. Excluded from this table are R&D not performed within the company (e.g., R&D contracted out to other organizations) and R&D not performed within the 50 U.S. states or D.C. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

For 1999, 2000, and 2001, the frame from which the statistical samples were selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, in prior reports detailed industry statistics were published only from the large company partition; detailed industry statistics from the small company partition were included in the manufacturing, nonmanufacturing, and all industries totals, but were aggregated into "small manufacturing" and "small nonmanufacturing" classifications instead of being included in their respective industry classifications. For this report, this practice was evaluated and discontinued because it was determined that the data for small companies are more useful if they are included in their respective industries even given the sampling concerns described above. Consequently, the "small manufacturing" and "small nonmanufacturing" stublines are no longer present. For 1999 and 2000, statistics previously published for the firms in the small company classifications are not shown separately in this table, but are included in the manufacturing, nonmanufacturing, and all industries totals. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001

² Beginning with 2001, statistics for total and Federally funded industrial R&D exclude data for Federally Funded Research and Development Centers (FFRDCs).